



# **Advanced Bomb Suit (ABS)**

## **Overview:**

The **Advanced Bomb Suit Program** will provide an improved EOD suit to U.S. Army EOD technicians for protection against the effects of exploding Unexploded Ordnance (UXO) and IED (Improvised Explosive Devices). This program will leverage advantage of advances in material technology and design to improve protection, comfort, and ergonomics.

## **Description:**

The Advanced Bomb Suit is a full body protective ensemble that will protect the EOD technician from close range fragmentation, blast overpressure, impact, and heat/flame. To minimize weight and maximize flexibility, fragmentation protection will be provided at various levels, specific to body regions, based on wounding potential.

Blast overpressure (BOP) protection will be provided to the lungs and gastrointestinal tract. An overpressure attenuation system, using impedance mismatching and energy absorption technologies will be used to reduce peak pressure and total impulse transmission to the thorax.

Impact protection will be provided to the head and spine through the use of impact liners. This provides protection to the body against the tertiary effects of a blast.

Heat and flame protection will be provided through the use of flame and heat resistant materials.

The suit will be compatible with the Soldier Intercom and Personal Ice Cooling System body cooling system.



## **Status:**

Life Cycle Cost Estimate completed and validated December 1999. ORD approval received from TRADOC 29 December 1999.

## **Project Director:**

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